

IN THE CLAIMS

Amend Claims 1, 7, 13, 15, and 16

Cancel Claims 9 and 17

1. (Currently Amended) A method for automatic handling of errors within a database engine, the method comprising the steps of:  
detecting an error while executing a query access plan; ~~and~~  
in response to detecting the error, automatically rebuilding the query access plan to generate a new query access plan; and  
executing the new query access plan.
2. (Cancel) The method of claim 1, further comprising the step of:  
executing the new query access plan.
3. (Original) The method of claim 1, wherein the error is a function check.
4. (Original) The method of claim 1 further comprising the steps of:  
receiving another error while executing a function within the new query access plan;  
identifying a first implementation method of the function within the new query access plan; and  
rebuilding the new query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a rebuilt query access plan.
5. (Original) The method according to claim 1, further comprising the step of:  
logging information about the error, and the new query access plan.
6. (Original) The method according to claim 1, further comprising the step of:  
reporting the error.

7. (Currently Amended) A method for automatic handling of errors within a database engine, the method comprising the steps of:
- receiving an error while executing a function within a query access plan;
  - identifying a first implementation method of the function within the query access plan;
  - and
  - rebuilding the query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a new query access plan; and  
executing the new query access plan.
8. (Original) The method of claim 7, wherein the function is one of a join function, an indexing function, a grouping function, and an ordering function.
9. (Cancel)
10. (Original) The method of claim 9, further comprising the steps of:
- receiving another error while executing the function within the new query access plan;
  - and
  - rebuilding the new query access plan by replacing the second implementation method with a third implementation method of the function.
11. (Original) The method according to claim 10 further comprising the step of:
- logging information about the error, the another error, and the new query access plan.

12. (Original) A method for automatic handling of errors within a database engine, the method comprising the steps of:

executing a query access plan comprising a plurality of functions, each function including a first implementation method;

detecting a first error when executing a first function;

rebuilding the query access plan to generate a new query access plan;

executing the new query access plan;

receiving a second error while executing the first function within the new query access plan; and

rebuilding the new query access plan by replacing the first implementation method with a second implementation method of the function.

13. (Currently Amended) A program product, comprising:

a program code configured upon execution to:

detect an error while executing a query access plan, ~~and~~

~~in response to detecting the error,~~ automatically rebuild the query access plan to

generate a new query access plan in response to detecting the error

execute the new query access plan; and

a signal bearing medium bearing the program code.

14. (Original) The program product of claim 13, wherein the program code is further configured to:

receive an error while executing a function within the new query access plan;

identify a first implementation method of the function within the new query access plan;

and

rebuild the new query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a rebuilt query access plan.

15. (Currently Amended) A program product, comprising:  
program code configured upon execution thereof to:  
    receive an error while executing a function within a query access plan;  
    identify a first implementation method of the function within the query access plan, ~~and~~  
    rebuild the query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a new query access plan, and  
    execute the new query access plan; and  
a signal bearing medium bearing the program code.
16. (Currently Amended) An apparatus comprising:  
at least one processor;  
a memory coupled with the at least one processor; and  
a program code residing in memory and executed by the at least one processor, the program code configured to:  
    detect an error while executing a query access plan; ~~and~~  
    ~~in response to detecting the error,~~ automatically rebuild the query access plan, in response to detecting the error, to generate a new query access plan, and  
    execute the new query access plan.
17. (Cancel)
18. (Original) The apparatus of claim 16, wherein the error is a function check.
19. (Original) The method of claim 16, wherein the program code is further configured to:  
detect another error while executing a function within the new query access plan;  
identify a first implementation method of the function within the new query access plan;  
and

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rebuild the new query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a rebuilt query access plan.

20. (Original) The method according to claim 16, wherein the program code is further configured to:

log information about the error, and the new query access plan.

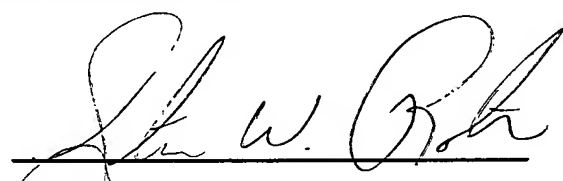
21. (Original) The method according to claim 16, wherein the program code is further configured to:

report the error.

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Respectfully submitted,

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